

Close Out Documents

AP-33 – 4637 Claude Ct.

Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Jenn Bradtmueller
160 Inverness Drive West, Suite 110
Englewood CO 80112

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1. Closeout Letter

December 26, 2018

Kiewit Infrastructure Co.
160 Inverness Drive West, Suite 110
Englewood, CO 80112

Re: SSCR AP-33 – 4637 Claude Ct.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the demolition of the structure located at 4637 Claude Ct. Denver, CO 80216, also referred as parcel AP-33, is complete.

The scope of work included the demolition of a 1,287 square foot structure, and the removal of the curb and driveway.

This document has been prepared to furnish you with key documents associated with this project for your records.

On behalf of the JKS Industries team, we would like to extend our appreciation to working with you on this project and look forward to working with you in the future.

Regards,



Jeffrey Knight,
President

2. CDPHE Demolition Permit

Colorado Department of Public Health and Environment

Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 8/23/2018.
The actual scheduled work dates are from 8/23/2018 through 8/29/2018.

Approval issued on: 7/25/2018

Record number: 140031

Notice Number: 18DE4916D

For the location specified below:

Residential House - AP-33

4637 Claude Ct.

Denver

Denver County

Fee Paid: \$60.00

Check number: 5120

Asbestos Building Inspector:

Logan Greenfield

Cerification No.: 20715

Inspection Date: 04/26/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: TS





DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 60.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Colorado Department
of Public Health
and Environment

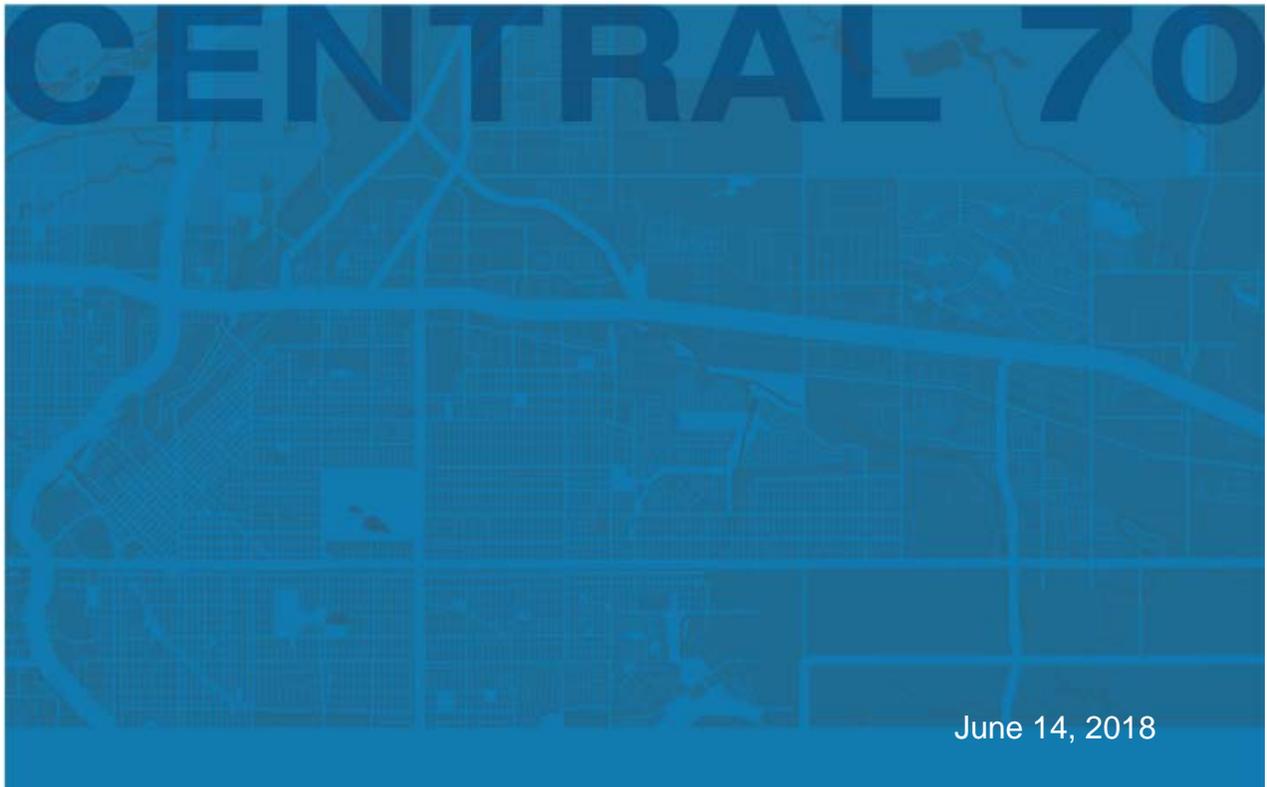
Demolition Contractor	Company Name: JKS Industries, LLC		Building Name: Residential House – AP-33		
	Street: 747 Sheridan Blvd #9A		Square footage of footprint of facility or portion of facility to be demolished 1,287		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4637 Claude Ct.	
	Telephone # (303) 238-0207	Fax # (303) 238-0452	City: Denver		County: Denver
	Project Manager: Ruben Domingo		Cell Phone # (303) 505-3630	Zip Code: 80216	Proposed Start Date 8/23/2018
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.		Proposed Completion Date 8/29/2018		Method/Means of Demolition: <input checked="" type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify: [†] Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator
	Signature: <i>Rubén Domingo</i>	Print Name: <i>Rubén Domingo</i>			
Landfill Receiving Building Debris: DADS					
Asbestos Removal Contractor	General Abatement Contractor (GAC) NA		Building Owner		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed		Owner's Name: Colorado Department of Transportation	
	Date Removal Completed	Telephone # ()		Street: 2000 S Holly St.	
	Type(s) of Asbestos-Containing Material Removed:		City: Denver		State: CO
				Zip Code: 80222	
				Contact's Name: Anthony Davito	
				Telephone # (303) 512-5900	
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)) :				
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:				
	Signature: (In Blue Ink) <i>Logan Greenfield</i>		Printed Name: Logan Greenfield		
	Date of Final Inspection April 26, 2018	CO Cert # 20715	Expiration Date Oct. 18, 2018	Telephone # (719) 545-0375	Cell Phone # (719) 250-0036
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).				
	CHECK THE APPROPRIATE BOX: <input type="checkbox"/> Building Owner <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Other Date: 7/18/2018				
Signature: <i>Rubén Domingo</i>		Print Name: Ruben Domingo			
THIS BOX IS FOR CDPHE USE ONLY:					
Postmark or Hand Delivery Date: 7/19/18		Approved By: <i>[Signature]</i>		Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380	
Form of Payment & #: ck \$120 \$60		Permit #: 181204916D	Record #: 440031	Date Issued:	

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 7/19/18
[Signature]

3. Project Design

3a. SSAR



Structure Survey Assessment Report AP-33

4637 Claude Ct.

Denver, CO 80216

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Appendix B	Laboratory Results & Chain of Custody – Asbestos
Appendix C	Laboratory Results & Chain of Custody – Lead & TCLP

APEC Project # 18-3066 - 008

Prepared for

Kiewit Meridiam Partners

Prepared by

Logan Greenfield
Logan Greenfield, CABI & AMS #20715
VP of Field Services

Reviewed by

Brandice Eslinger
Brandice Eslinger, EP, CABI & PD # 5494
President

1 Introduction

All-Phase Environmental Consultants, Inc. (APEC) was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building materials (RBM) at 4637 Claude Ct., Denver, CO. This survey will identify with what materials will need to be abated or removed prior to the future demolition activities.

Table 1-1 Project Details

Client Name:	Kiewit Meridiam Partners
Site Location:	4637 Claude Ct., Denver, CO 80216
Building Type	One Building – Single family Residence
Building Size	Building is approximately 858 square feet
Construction Date:	1886 – Based on City and County of Denver Assessor's Records
Building Uses:	Residential
Types of Materials to be Disturbed/Description of Proposed Disturbances:	Client intends to demolish the structure. All building materials will be removed.

This Structure Survey Assessment was conducted as part of the Central 70 Project located in Denver, Colorado. This assessment was conducted in accordance with the Structure Survey Assessment Plan (SSAP), dated March 27, 2018. The SSAP, as defined in Section 23132 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between Colorado Department of Transportation (CDOT) and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other Recognized Hazardous Materials (RHMs), as defined by the Resource Conservation and Recovery Act (RCRA); universal waste, as defined by the U.S. Environmental Protection Agency (EPA) and 6 CCR Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On April 26, 2018, APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at 4637 Claude Ct., Denver, CO. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the EPA Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 Code of Federal Regulations (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs were conducted in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording on a chain-of-custody, taking a photo of the sample and recording the location on a site diagram. Demolition work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by The Occupational Safety and Health Administration (OSHA), The Environmental Protection Agency (EPA), The Colorado Department of Public Health and Environment (CDPHE), and The Denver County Health Department. All samples were collected and submitted to EMSL Analytical, Inc. in Denver, CO per APEC chain-of-custody protocol. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP) and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

This inspection report and methodology complies with the CDPHE Asbestos Sampling and Report Requirements Memorandum dated February 28, 2018.

2.2 LEAD-BASED PAINT SURVEY

On April 26, 2018, APEC certified personnel Rick Ralston conducted the lead based paint (LBP) survey. The LBP survey was conducted to evaluate the absence and/or presence of LBP or lead-containing paint (LCP) that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method was the use of a heat gun and/or scraping a portion of the paint to the substrate (material under the paint). Proper Chain of Custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Indianapolis, IN, via Fed Ex. The samples were analyzed by total lead (percent by weight) via Flame Atomic Absorption (FAA) by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association's Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm²) as measured with an XRF or 5000 parts per million (ppm) when measured by weight, or 0.5 percent (%) by weight.

A total of 5 homogeneous paint color variations of suspect LBP areas were identified. One paint chip sample was collected from each suspect homogeneous area and submitted to the laboratory for analysis. Representative photographs of each known LBP were taken; however they are not included as there are no positive LBP or LCP samples. The paint chip sample locations were recorded and are included on the sample location drawing (Figure 3). Descriptions of the suspect homogeneous materials and a list of the collected samples are described in the 'Findings' section.

Based on the analytical results for the 5 samples, Toxicity Characteristic Leachate Procedure (TCLP) analysis is not required, however, most landfills require analytical results before building materials can be disposed of thus a TCLP sample was analyzed. The sample results are located in Appendix C.

2.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

On April 26, 2018, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA Universal Waste Rule (UWR) requirements (40 CFR, Part 273). APECs inventory review consisted of the following : potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing PCBs (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The Survey of Suspected RBMs are for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

3 Findings

3.1 ASBESTOS SURVEY

A total of 16 bulk samples were collected from 4 suspect homogenous materials throughout the structure, and the results of the PLM analysis are presented in Table 3-1. **No materials analyzed positive for ACM (i.e. present greater than 1%).**

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point count results were not needed due to the initial results all analyzing as negative.

Duplicate Samples

For quality assurance purposes, a duplicate sample was taken approximately every 20th sample. There were 16 bulk samples obtained, one duplicate sample was collected, 4637CLD-S-4Q.

3.2 LEAD-BASED PAINT SURVEY

A total of 5 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 3-2; Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). For all other facilities, caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

All 5 samples analyzed were less than the regulated LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix C.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP analysis was performed for landfill compliance, one sample (4637CLD). The Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is <0.40 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix C.

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. A complete list of the RBMs is presented in Table 3-3, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

No ACMs were identified throughout the structure; however, if additional suspect materials, not sampled during this investigation, are identified during demolition, they should either be assumed to be ACM or should be sampled prior to disturbance.

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos. The exception are Category I & II Non-Friable ACMs that can, with best management practices, remain during the activities and remain non-friable, i.e. not able to be reduced to a dust. Activities such as grinding, excessive munching of materials, sawing, jack-hammering, etc. are strictly prohibited.

According to AHERA, EPA, and the CDPHE, materials testing at less than or equal to 1% asbestos fibers are not considered to be an ACM. However, any materials containing asbestos still need to be regulated. OSHA protocol must be followed when handling materials containing ANY amount of asbestos. Proper personal protective equipment (PPE) and engineering controls must be utilized if these materials will be impacted during demolition activities.

4.2 LEAD-BASED PAINT

All 5 samples analyzed less than the regulated LCP and LBP thresholds, and are considered non-lead containing paint (NLC). No lead abatement is required prior to demolition. TCLP results confirmed that the waste stream is not hazardous with respect to lead content.

4.3 REGULATED BUILDING MATERIALS

Materials found during the regulated materials inventory within the building may require special handling or disposal prior to demolition activities. If abatement is needed, APEC recommends that the asbestos contractor or general contractor selected by the client properly dispose of these regulated materials, per applicable regulations.

With regards to RBMs, if listed, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufacture's label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacture's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon. This will need to be reclaimed or taken to a facility capable of this activity. Mercury containing thermostats will need to be disposed of at a facility certified to take this type of material. The contractor should also carefully remove all associated fluorescent light tubes and compact fluorescent lights and recycle or dispose of these materials according to applicable regulations.

This inspection was primarily relevant to the Federal UWR requirements under 40 CFR 273. It should be noted that contractors submitting bids for removal of the RBMs should verify quantities, conditions, and locations of all RBMs prior to bid submittals and initiating demolition activities. The contractor is also responsible for proper recycling and/or disposal of the RBMs, and should follow all federal, state and local regulations when handling these materials.

5 Limitations

This Structure Survey Assessment Report was prepared by All-Phase Environmental Consultants, Inc., at the request of and for the sole benefit of Kiewit Meridiam Partners, or any entity controlling, controlled by, or under common control with Colorado Department of Transportation. APECs certified inspectors used reasonable diligence and professional judgement to identify all suspect asbestos-containing materials, lead based paint, and regulated building materials in the property. APEC will not be held liable for property damage or any loss of property value due to the inspection. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

APEC utilized destructive inspection methods in performing this survey, however accessibility may have been a limiting condition. If additional impacted suspect materials are discovered during related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos, lead or other regulated materials; or assume the material(s) to be containing, quantify and remove on a unit cost basis.

Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

Tables

Table 3-1	Non-Asbestos Containing Samples
Table 3-2	Summary of Paint Chip Laboratory Analysis for Lead
Table 3-3	Summary of Regulated Building Materials

Table 3-1 Non-Asbestos Containing Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4637CLD-R11-1A	ROOM 11	ND	PLM	Good	Knockdown Textured Drywall	Walls and Ceilings throughouth entire house	NA
4637CLD-R4-1B	ROOM 4	ND	PLM	Good			NA
4637CLD-H-1C	HALLWAY	ND	PLM	Good			NA
4637CLD-R3-1D	ROOM 3	ND	PLM	Good			NA
4637CLD-R1-1E	ROOM 1	ND	PLM	Good			NA
4637CLD-R2-1F	ROOM 2	ND	PLM	Good			NA
4637CLD-R5-1G	ROOM 5	ND	PLM	Good			NA
4637CLD-R7-1H	ROOM 7	ND	PLM	Good			NA
4637CLD-R11-1I	ROOM 11	ND	PLM	Good			NA
4637CLD-R8-2A	ROOM 8	ND	PLM	Good			Flooring
4637CLD-R9-2B	ROOM 9	ND	PLM	Good	NA		
4637CLD-EX-3A	EXTERIOR	ND	PLM	Good	Roofing	Roofing on house and shed	NA
4637CLD-EX-3B		ND	PLM	Good			NA
4637CLD-S-4A	SHED	ND	PLM	Good	Textured Drywall	Shed located on the west side of the house	NA
4637CLD-S-4B		ND	PLM	Good			NA
4637CLD-S-4C & 4Q		ND	PLM	Good			NA

ND=Non-Detect
 PLM=Polarized Light Microscopy
 NA=Not Applicable

Table 3-2 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4637CDL-1L	Room 11	<0.010	Drywall	White	NLC
4637CDL-2L	Room 11	<0.010	Wood	White	NLC
4637CDL-3L	Room 11	<0.010	Wood	White	NLC
4637CDL-4L	Room 4	<0.010	Drywall	Fawn	NLC
4637CDL-5L	Room 1	<0.019	Drywall	Blue	NLC

Table 3-3 Summary of Regulated Building Materials

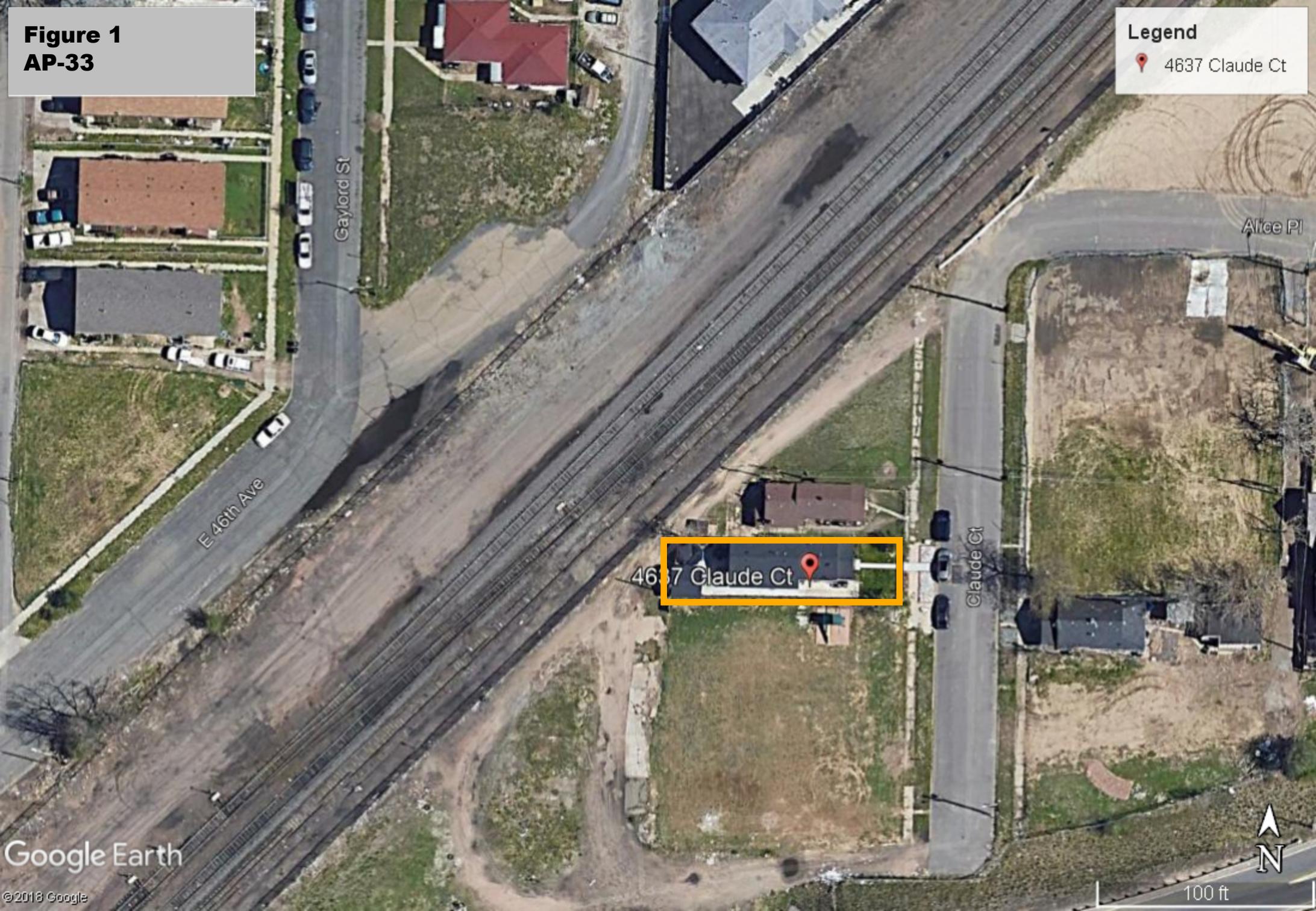
Room	Material	Location	Quantity Fixture/Bulbs each
Room 9	4' florescent Fixture	Ceiling	1 fixture-4 Bulbs
Room 1	Electric Water Heater	Floor	1
Exterior	Gas Main	Exterior-East	1
Room 3	Electrial Breaker Box	West wall	1
Room 11	Portable Fire Alarm	Ceiling	1
Hallway	Portable Fire Alarm	Ceiling	1
Exterior	Electrial Meter	Exterior West Side	1

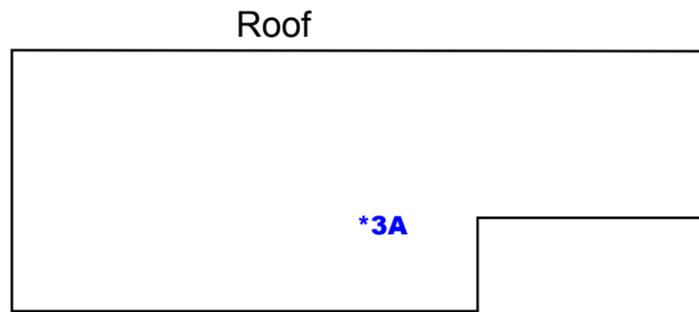
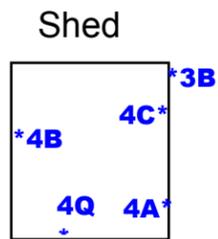
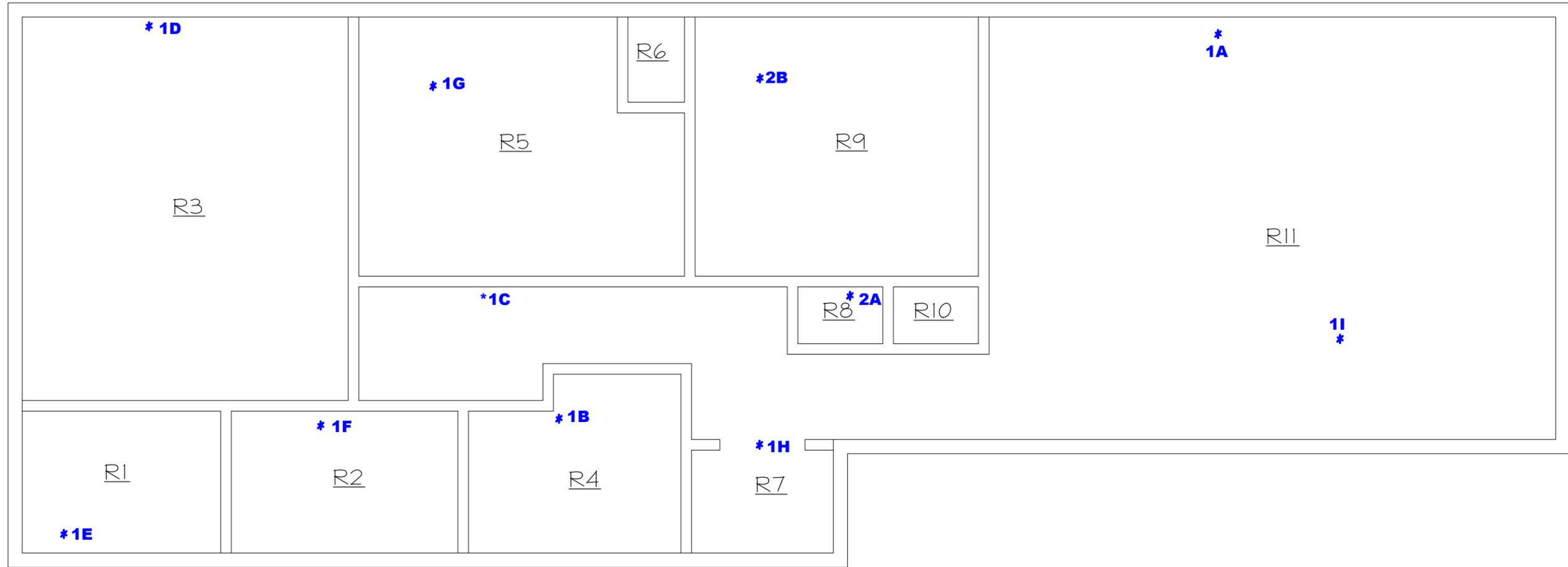
Figures

- Figure 1 Site Location
- Figure 2 Asbestos Bulk Sample Locations
- Figure 3 Lead-Based Paint Sample Locations
- Figure 4 Regulated Building Materials

Figure 1
AP-33

Legend
📍 4637 Claude Ct





Shed and Roof-not to scale

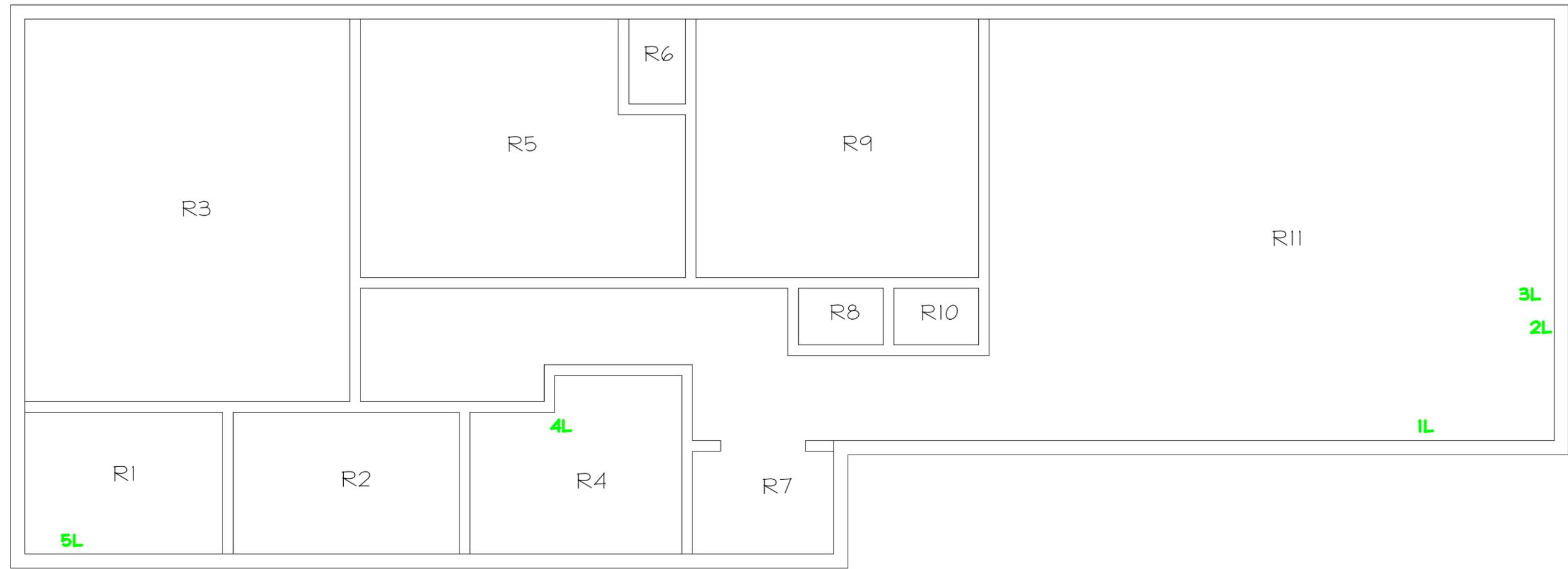
- R1 = Room Numbers
- *4B = Asbestos Samples (Detect)
- *4B = Asbestos Samples (Non-Detect)



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/4" = 1'-0"

FIGURE 2 - Asbestos Bulk Sample Locations
 CENTRAL 70 - Structure Survey Assessment Map
 AP-33
 4637 Claude Ct., Denver, CO
 April 26, 2018
 APEC #: 18-3066

ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375

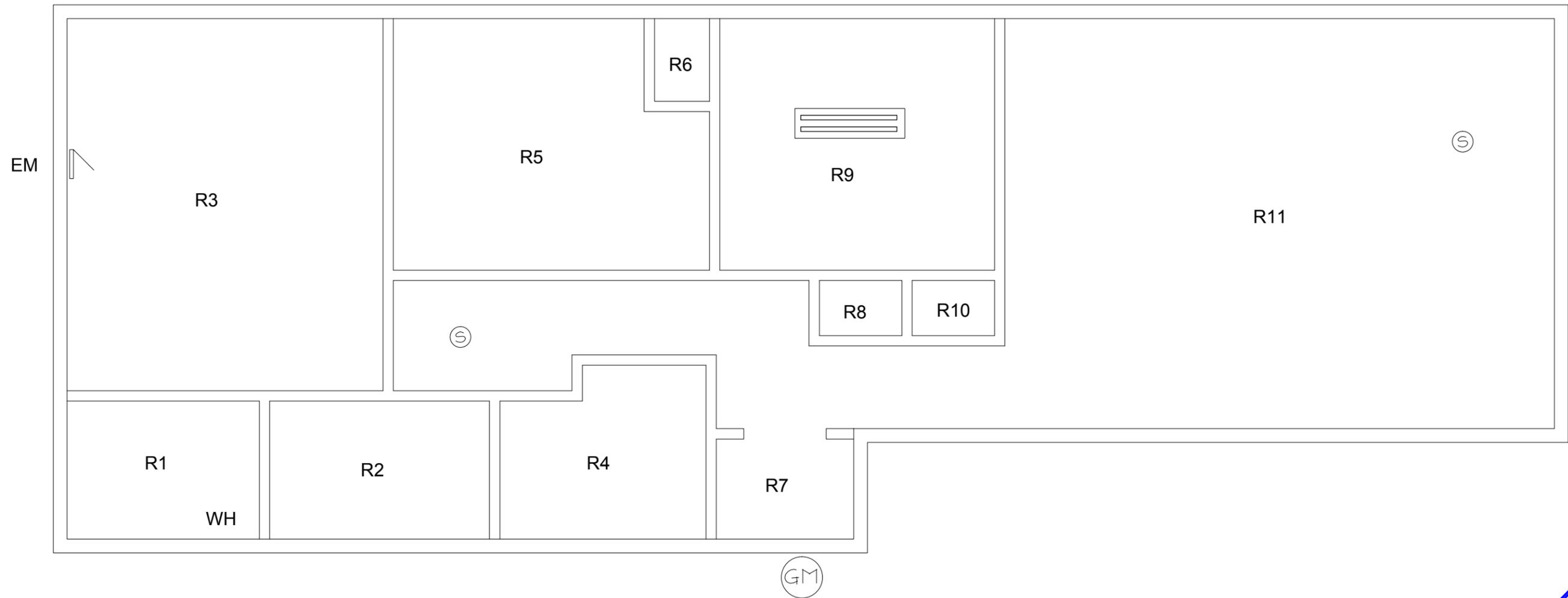


DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/4" = 1'-0"

- R1 = Room Numbers
- 4 = Lead Base Paint (Detect)
- 4 = Lead Containing Paint (Detect)
- 4 = Lead Base Paint (Non-Detect)

FIGURE 3 - Lead-Based Paint Sample Locations
 CENTRAL 70 - Structure Survey Assessment Map
 AP-33
 4637 Claude Ce., Denver, CO
 April 26, 2018
 APEC #: 18-3066

ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/4" = 1'-0"

R1 = Room Numbers
 EM = Electrical Meter
 GM = Gas Meter
 = Breaker Panel

 = Fluorescent Lights
 WH = Water Heater
 = Smoke Alarms

FIGURE 4 - Regulated Building Materials	
CENTRAL 70 - Structure Survey Assessment Map	
AP-33	
4632 Claude Ct., Denver, CO	
April 26, 2018	
APEC #: 18-3066	
	ALL-PHASE ENVIRONMENTAL CONSULTANTS, INC. 721 W 9TH STREET Pueblo, CO 81003 Ph: (719) 545-0375

A

ASBESTOS AND LEAD
CERTIFICATIONS





Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

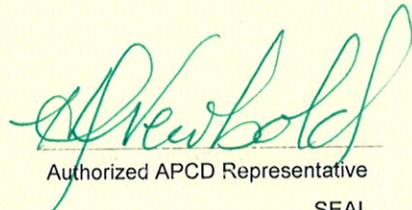
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: October 18, 2017

Expires: October 18, 2018

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative
SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Logan Greenfield

20715

*Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course
Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.*

BUILDING INSPECTOR

Course Date: September 20, 2017
Certificate No.: R17-1661-AI-CO
No. of Hours: 4
Expiration Date: September 20, 2018
Certification not valid without watermark

A handwritten signature in black ink that reads "Frank Hulce".

Frank Hulce - Instructor

A handwritten signature in black ink that reads "Danaya Benedetto".

Danaya Benedetto- Training Program Manager



Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

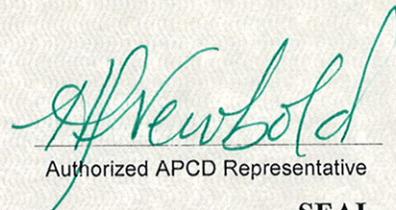
has met the requirements of 25-7-1104, C.R.S. and Air Quality Control
Commission Regulation No. 19, and is hereby certified by the state of
Colorado in the following discipline:

Risk Assessor*

Issued: February 10, 2017

Expires: February 10, 2019

** This certificate is valid only with the possession of a valid
lead-based paint training certificate in the discipline specified
above, issued by either a Colorado approved training provider,
an EPA approved training provider, or a training provider
approved by another EPA authorized program.*


Authorized APCD Representative

SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Richard Ralston

Has successfully completed the required training hours and passed the examination required by the Colorado Department of Public Health and Environment for:

Lead-Based Paint Risk Assessor Refresher

For the purposes of accreditation under the Colorado Department of Public Health and Environment Regulation No. 19 and other standard developed by EPA pursuant to Title IV of TSCA

Course Date: April 6, 2016
Certificate No.: R16-031-LRA-CO
No. of Hours: 8
Expiration Date: April 6, 2019

Certification not valid without watermark

Luis E. Peon

Luis Peon - Instructor

Danaya Benedetto

Danaya Benedetto - Training Program Manager

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.
Denver, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2018-04-01 through 2019-03-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

1010 Yuma Street
Denver, CO 80204
Ms. Amanda Lang
Phone: 303-740-5700
Email: alang@emsl.com
<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|---|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: September 01, 2018 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**

Issue Date: 08/31/2016

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description <i>(for internal methods only)</i>
Paint		EPA SW-846 3050B	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wipes		EPA SW-846 3050B	
		EPA SW-846 7000B	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

B

LABORATORY RESULTS &
CHAIN OF CUSTODY -
ASBESTOS





EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221802872
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 04/27/2018 10:00 AM
Analysis Date: 05/01/2018
Collected Date: 04/26/2018

Project: 18-3066-C70-4637 CLD (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4637CLD-R11-1A-T exture 221802872-0001	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R11-1A-D rywall 221802872-0001A	Knockdown Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4637CLD-R4-1B-Te xture 221802872-0002	Knockdown Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R4-1B-Dr ywall 221802872-0002A	Knockdown Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4637CLD-H-1C-Text ure 221802872-0003	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-H-1C-Dry wall 221802872-0003A	Knockdown Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4637CLD-R3-1D-Te xture 221802872-0004	Knockdown Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R3-1D-Dr ywall 221802872-0004A	Knockdown Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/01/2018 13:51:09



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221802872
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-C70-4637 CLD (CDOT)

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 04/27/2018 10:00 AM
Analysis Date: 05/01/2018
Collected Date: 04/26/2018

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4637CLD-R1-1E-Texture 221802872-0005	Knockdown Textured Drywall	White/Beige Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R1-1E-Drywall 221802872-0005A	Knockdown Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose <1% Glass	70% Gypsum 15% Non-fibrous (Other)	None Detected
4637CLD-R2-1F-Texture 221802872-0006	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R2-1F-Drywall 221802872-0006A	Knockdown Textured Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4637CLD-R5-1G-Texture 221802872-0007	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R5-1G-Drywall 221802872-0007A	Knockdown Textured Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4637CLD-R7-1H-Texture 221802872-0008	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R7-1H-Drywall 221802872-0008A	Knockdown Textured Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/01/2018 13:51:09



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221802872
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-C70-4637 CLD (CDOT)

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 04/27/2018 10:00 AM
Analysis Date: 05/01/2018
Collected Date: 04/26/2018

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4637CLD-R11-1I-Te xture 221802872-0009	Knockdown Textured Drywall	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R11-1I-Dr ywall 221802872-0009A	Knockdown Textured Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4637CLD-R8-2A 221802872-0010	Flooring	Brown/White Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-R9-2B-Flo oring 221802872-0011	Flooring	White/Red/Black Fibrous Homogeneous	50% Cellulose 15% Synthetic	35% Non-fibrous (Other)	None Detected
4637CLD-R9-2B-Ma stic 221802872-0011A	Flooring	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4637CLD-EX-3A 221802872-0012	Roofing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4637CLD-EX-3B 221802872-0013	Roofing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4637CLD-S-4A-Text ure 221802872-0014	Textured Drywall	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-S-4A-Dry wall 221802872-0014A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/01/2018 13:51:09



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221802872
Customer ID: ALLP62
Customer PO:
Project ID: CDOT

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 04/27/2018 10:00 AM
Analysis Date: 05/01/2018
Collected Date: 04/26/2018
Project: 18-3066-C70-4637 CLD (CDOT)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4637CLD-S-4B-Text ure 221802872-0015	Textured Drywall	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-S-4B-Dry wall 221802872-0015A	Textured Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4637CLD-S-4C-Dry wall 221802872-0016	Textured Drywall	Brown/Gray/White Fibrous Heterogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/01/2018 13:51:09



EMSL Analytical, Inc.

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EMSL Order: 221802872
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Phone: (719) 250-0036
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Received Date: 04/27/2018 10:00 AM
Analysis Date: 05/01/2018
Collected Date: 04/26/2018
Project: 18-3066-C70-4637 CLD (CDOT)

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 04/27/2018 Sample Receipt Time: 10:00 AM
Analysis Completed Date: 05/01/2018 Analysis Completed Time: 1:48 PM

Analyst(s):



Amanda Lang PLM (12)



Gentry Catlett PLM (16)

Samples Reviewed and approved by:



Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 05/01/2018 13:51:09



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only).

221802872

Denver, CO 80204
PHONE (303) 740-5700
FAX (303) 741-1400

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3066-C 70-4637 CLD		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique
TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		Other: <input type="checkbox"/>

Check For Positive Stop - Clearly Identify Homogenous Group
 Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4637CLD-R11-1A	Knockdown textured Drywall	---	4-26-18
4637CLD-R4-1B	↓	---	↓
4637CLD-H-1C		---	
4637CLD-R3-1D		---	
4637CLD-R1-1E		---	
4637CLD-R2-1F		---	
4637CLD-R5-1G		---	
4637CLD-R7-1H		---	

Client Sample # (s): - Total # of Samples: 16

Relinquished (Client): _____ Date: _____ Time: _____

Received (Lab): [Signature] Date: 4/27/18 Time: 10:00 am

Comments/Special Instructions: WI



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804957
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-Q-AP33

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 07/06/2018 10:10 AM
Analysis Date: 07/06/2018
Collected Date: 06/29/2018

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4637CLD-S-4Q-Text ure 221804957-0001	Textured Drywall	White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4637CLD-S-4Q-Dry wall 221804957-0001A	Textured Drywall	Brown/Gray Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 07/06/2018 13:01:07



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804957
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-Q-AP33

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 07/06/2018 10:10 AM
Analysis Date: 07/06/2018
Collected Date: 06/29/2018

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	07/06/2018	Sample Receipt Time:	10:10 AM
Analysis Completed Date:	07/06/2018	Analysis Completed Time:	12:56 PM

Analyst(s):

Gentry Catlett PLM (2)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 07/06/2018 13:01:07

7/6



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221804457

Denver, CO 80204
PHONE: (303) 740-5700
FAX (303) 741-1400

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3064-Q-AP33		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM-Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group

Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4637CLD-5-4Q	Textured Drywall	-	6-29-18
 			

Client Sample # (s): _____ Total # of Samples: 1

Relinquished (Client): *[Signature]* Date: 7-2-18 Time: 5:20

Received (Lab): *[Signature]* Date: 7/6/18 Time: 10:10 AM

Comments/Special Instructions: E-Fed 7455 0259 5065

1/5

C

LABORATORY RESULTS &
CHAIN OF CUSTODY -
LEAD AND TCLP





EMSL Analytical, Inc.

6340 CastlePlace Dr., Indianapolis, IN 46250

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>

indianapolislab@emsl.com

EMSL Order:	161807719
CustomerID:	ALLP62
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 04/30/18 10:10 AM
 Collected:

Project: **Central 70 / 18-3066-Lead 4637 Claude Ct.**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>RDL</i>	<i>Lead Concentration</i>
4637CLD-1L 161807719-0001		4/30/2018 Site: White drywall R11	0.010 % wt	<0.010 % wt
4637CLD-2L 161807719-0002		4/30/2018 Site: White wood R11	0.010 % wt	<0.010 % wt
4637CLD-3LQ 161807719-0003		4/30/2018 Site: White wood R11	0.010 % wt	<0.010 % wt
4637CLD-4L 161807719-0004		4/30/2018 Site: Fawn drywall R4	0.010 % wt	<0.010 % wt
4637CLD-5L 161807719-0005		4/30/2018 Site: Drywall blue close7 R1	0.010 % wt	0.019 % wt

Doug Wiegand, Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 05/01/2018 15:33:47

4637 c/a/w
MS



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

161807719

EMSL ANALYTICAL, INC.
200 Route 130 NORTH
CINNAMINSON NJ 08077
Phone (800) 220-3675
FAX (856) 658-3502

PHONE
FAX.

Company: All Phase Environmental		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note Instructions in Comments**	
Street: 721 9th Street		Third Party Billing requires written authorization from third party	
City: Pueblo	State/Province: CO	Zip/Postal Code:	Country:
Report To (Name): Richard RACSZO		Telephone #:	
Email Address: Rick@allphaseenv.com		Purchase Order:	
Project Name/Number: CENTRAL 70 / 15-3066		Please Provide Results: <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: Colorado		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
--	--	--

Lead (Pb) Flame Atomic Absorption <input checked="" type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other:	Materials Science <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other:
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Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other:	IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other:
--	--	---

**Comments/Special Instructions:

Client Sample #'s	-	Total # of Samples:
Relinquished (Client): R. Rabston	Date: 4/26/2018	Time:
Received (Lab): [Signature]	Date: 4/27/18	Time: 10:00 am WJ

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide
Controlled Document-OneChain-R3-11/8/2011
Rec'd J. Brown 4/30/18 10:10 Jx



EMSL Analytical, Inc.

6340 CastlePlace Dr., Indianapolis, IN 46250

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>

indianapolislab@emsl.com

EMSL Order:	161807764
CustomerID:	32PHAS54
CustomerPO:	
ProjectID:	

Attn: **Richard Ralston**
All Phase Environmental, Inc.
8792 Lauder Circle
Suite 200
Huntington Beach, CA 92646-2222

Phone: (714) 593-3800
 Fax: (714) 593-0012
 Received: 04/30/18 10:10 AM
 Collected:

Project: **Central 70 / 18-3066-**

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

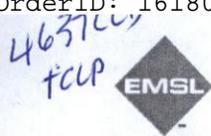
<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>RDL</i>	<i>Lead Concentration</i>
4637CLD		5/1/2018	0.40 mg/L	<0.40 mg/L
161807764-0001	Site: TCLP			

Doug Wiegand, Laboratory Manager
or other approved signatory

This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

Initial report from 05/03/2018 15:53:00



EMSL ANALYTICAL, INC. LABORATORY PRODUCTS TRAINING

Chain of Custody EMSL Order Number (Lab Use Only):

161807764

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINCINNATI OH 45207 PHONE (800) 220-3675 FAX (513) 858-3502

PHONE: FAX:

Company: All Phase Environmental
Street: 721 9th Street
City: Pueblo State/Province: CO Zip/Postal Code: Country:
Report To (Name): Richard Racso
Email Address: Rick@allphaseenv.com
Project Name/Number: CENTRAL 70/18-3266
U.S. State Samples Taken: Colorado

Turnaround Time (TAT) Options* - Please Check
3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos
PCM - Air NIOSH 7400 w/ 8hr. TWA
TEM - Air 4-4.5hr TAT(AHERA ONLY) AHERA 40 CFR, Part 763 NIOSH 7402 EPA Level II ISO 10312
PLM - Bulk PLM EPA 600/R-93/116 PLM EPA NOB (<1%) NYS 198.1 (friable-NY) NYS 198.6 (non-friable-NY)
TEM - Water Fibers >10µm All Fiber Sizes
TEM - Dust Microvac - ASTM D 5755 Wipe-ASTM D6480
TEM - Bulk TEM EPA NOB NYS NOB 198.4 (non-friable-NY) Chatfield SOP
Soil/Rock/Vermiculite PLM CARB 435 - A (0.25% sensitivity) PLM CARB 435 - B (0.1% sensitivity) TEM CARB 435 - B (0.1% sensitivity) EPA Reg. 1 Screening Protocol (Qualitative)
Other:

Lead (Pb) Materials Science
Flame Atomic Absorption Chips SW846-7000B or AOAC 974.02 Soil SW846-7000B/7420 Air NIOSH 7082 Wastewater SM3111B or SW846-7000B/7420 ASTM Wipe SW846-7000B/7420 non ASTM Wipe SW846-7000B/7420 TCLP SW846-1311/7420/SM 3111B
ICP Air NIOSH 7300 Modified non ASTM Wipe SW846-6010B or C ASTM Wipe SW846-6010B or C Soil SW846-6010 B or C Waste Water SW846-6010B or C TCLP SW846-6010B or C
Graphite Furnace Atomic Absorption Soil SW846-7421 Wastewater EPA 200.9 Air NIOSH 7105 Drinking Water EPA 200.9
Other:

Microbiology
Wipe and Bulk Samples Mold & Fungi - Direct Examination Mold & Fungi Culture (Genus Only) Bacterial Count & ID (Up to Three Types) Bacterial Count & ID (Up to Five Types) MRSA Pseudomonas aeruginosa
Water Samples Total Coliform & E.coli (P/A) Fecal Coliform (SM 9222D) Sewage Screen Heterotrophic Plate Count (SM 9215)
Air Samples Mold & Fungi (Spore Trap) Mold & Fungi Culture (Genus Only) Mold & Fungi (Genus & Species) Bacterial Culture & ID (Up to Three Types) Bacterial Culture & ID (Up to Five Types) Endotoxin Testing
Real Time Q-PCR (See Analytical Guide for Code) Code:
Legionella Level 1 Level 2 Level 3 Level 4
Other:
Materials Science Common Particle ID (large particles) Full Particle ID (environmental dust) Basic Material ID (solids) Advanced Material ID Physical Testing (Tensile, Compression) Combustion-by-products (soot, char, etc.) X-Ray Fluorescence (elem. analysis) X-Ray Diffraction (Crystalline Part.) MMVF's (Fibrous glass, RCF's) Particle Size (sieve/microscopy/laser) Combustible Dust Petrographic Examination
Other:
IAQ Nuisance Dust NIOSH 0500 0600 Airborne Dust PM10 TSP Silica Analysis: All Species Silica Analysis - Single Species Alpha Quartz Cristobalite Tridymite HVAC Efficiency Carbon Black Airborne Oil Mist Radon Testing: Call for Kit and COC
Other:

**Comments/Special Instructions: IF NONE of the chips for 463760 are not 15µg or more - don't do TCLP

Client Sample #'s Total # of Samples: 1
Relinquished (Client): R. Rabston Date: 4/26/18 Time: 1:10
Received (Lab): Date: 4/27/18 Time: 10:00 am WI

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide
Controlled Document-OneChain-R3-11/8/2011
Reid Braun 4/30/18 10:10 x

3b. Pre-Demolition Engineering Survey

**Pre-Demolition Survey
And General Demolition Plan
For
4637 Claude Court
Denver, CO 80216**



Engineers: David A. Poe, P.E., S.E.
Glen L. Wilson, E.I.

July 3, 2018
Project No: 180113

July 3, 2018

Stephen P. Di Nardo
JKS Industries, LLC
747 Sheridan Blvd #9A
Lakewood, CO 80214

Re: 4637 Claude Court, Denver, CO 80216
Pre-Demolition Engineering Survey per OSHA 1926.850(a)
And General Demolition Plan

Date of Observation: 06/20/18

Dear Mr. Di Nardo:

At the request of JKS Industries (JKS), a representative from Anchor Engineering, Inc. (AEI) performed a site observation at the above-referenced structure on Wednesday, June 20, 2018.

For the purpose of this report, there are two buildings on the property. The front elevation of the residence faces east and is parallel to Claude Street. There is a storage shed at the southwest corner of the property. At the time of our visit the buildings were vacant.

Additional considerations for this site include the close proximity to Union Pacific Railroad. The railroad property borders the north and west sides of the property. During demolition procedures all men, equipment, and materials are to remain a distance of not less than 25'-0" away from the centerline of the tracks. This distance should be clearly marked prior to beginning demolition procedures. Consult with Union Pacific Railroad for additional procedures and requirements. Refer to the demolition sequencing portion of this report for additional recommendations.

The purpose of our site visit was twofold:

1. To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject building.

- a. ***OSHA 1926.850(a):*** *Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.*

Project Specific Applicability: The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-project meeting, and it shall also be included in the job site books.

- b. ***OSHA 1926.85(b):*** *When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.*

Project Specific Applicability: 4637 Claude Court, Denver, CO 80216 has not been damaged by any fire, flood, explosion, or any other event. Therefore, no shoring or bracing is required.

- c. ***OSHA 1926.850(c):*** *All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.*

Project Specific Applicability: The contractor and subcontractor will ensure all electric, gas, water, steam, sewer, and other services are to be cut off prior to any work being performed. Contractor shall confirm with KMP through the pre-demolition check list and present the necessary information in the pre-demolition meetings.

- d. **OSHA 1926.850(d):** *If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.*

Project Specific Applicability: The demolition of 4637 Claude Court, Denver, CO 80216 does not require any power, water or other utilities.

- e. **OSHA 1926.850(e):** *It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.*

Project Specific Applicability: All types of hazardous chemicals, gases, explosives, flammable materials, or other dangerous substances shall be removed from the structure prior to demolition as part of the pre cleaning phase during the environmental remediation. All materials are to be documented, manifested, and included in the environmental close out documents.

- f. **OSHA 1926.850(f):** *Where a hazard exists from fragmentation of glass, such hazards shall be removed.*

Project Specific Applicability: All hazards from fragmentation of glass shall be removed in the normal course of demolition.

- g. **OSHA 1926.850(g):** *Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- h. **OSHA 1926.850(h):** *When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- i. **OSHA 1926.850(i):** *All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

OSHA 1926.850(j): *Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor construction shall begin at the top of the structure and proceed downward. Each story of*

exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

- j. **1926.850(k):** *Employee entrances to multistory structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof), and shall be capable of sustaining a load of 150 pounds per square foot.*

Project Specific Applicability: Not applicable. Building is a single story structure. No employees are permitted to enter the structure once demolition begins.

2. Provide a general outline of the demolition procedures and sequence that is proposed to be used in the demolition of the subject structure. These outlined procedures/sequences are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations.

No architectural or structural drawings were provided for our review.

The residence is a single-story residential structure and is assumed to be founded on a rubble stone or concrete foundation. The foundation was not visible at the time of our observation, but is assumed to be a crawlspace based on the information provided on the City and County of Denver, Assessor's Office website. The residence is approximately 22'x60' with the long direction oriented east to west. The wall and roof framing is assumed to be composed of dimension lumber framing. The storage shed is approximately 12'x12'. It is a wood framed structure and appears to be sitting on a concrete slab on grade.

Existing Condition Observation

During our site visit we made visual observations around the building perimeters only. The structures were partially exposed in some areas. All of the existing structural systems that were exposed to view appeared to be in good condition. We saw no evidence of noteworthy structural distress. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structures is very low. Workers may be allowed in the buildings to prepare them for demolition with such activities as removal of materials or other work that does not involve activities that affect existing structural systems.

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

We anticipate demolition for this structure to be completed with heavy equipment including:

- "Track-hoe" excavators capable of reaching structural elements to be demolished. Excavators may be equipped at times with buckets/grapples, hydraulically actuated demolition hammers or shears, and other custom extensions for demolition and/or holding elements for temporary stability.
- Small skid steer loaders may also be utilized from time to time during demolition

Demolition Sequencing

General

After the commencement of demolition with heavy equipment, by necessity, structural systems from this point forth will be destroyed. Demolition should proceed as fast as practical until the structure is demolished in its entirety. The lateral stability of the buildings are provided by the perimeter wood-framed walls.

During demolition operations, care must be taken to protect and prevent damage to any active or live utilities both above and below ground. Utility poles were observed on the west side of the property. Removal of the existing power lines is to be coordinated with Excel Energy.

During demolition, water will be used to wet down the area that is being demolished prior to starting the demolition. During the demolition process a water spray will be used to minimize the fugitive particulate matter emissions. The ground will be sprayed with water either by water truck or some type of water spray to minimize fugitive particulate emissions from haul trucks and demolition equipment.

Sequence

The residence superstructure shall be collapsed into the crawlspace starting at the east side of the building and proceeding thru the length of the building in the east/west direction. Demolished materials and on site vegetation along the north and west property lines shall be pulled towards the interior of the lot to avoid falling onto the adjacent railroad property. Do not drive equipment onto the footprint of the building until the structure has been collapsed. The storage shed can be demolished in any sequence. Once the roof, wall, and floor systems are demolished, the slab on grade and foundations can be removed in any sequence.

Closing

This report constitutes an engineering review and summary of the pre-demolition condition of the structural systems of the subject buildings as well as a general outline of demolition procedures and sequencing. Note that the conclusions drawn are based on visual observations and our expertise and experience with structural engineering of building structures. Unless noted otherwise, no non-destructive or destructive testing of any kind was performed, nor was any formal engineering analysis completed. These procedures/sequences outlined herein are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations. Anchor Engineering, Inc. shall be held harmless for damage of any kind to surrounding structures or property or for injury of any kind to any person or persons. The demolition contractor is responsible for jobsite safety. The conclusions presented in this report are based on conditions noted at the time of the observation. Commentary or recommendations regarding environmental issues are beyond the scope of this report. Should questions arise, or if further information is required regarding the content of this report, please contact our office.

Sincerely,
Anchor Engineering, Inc.



Glen L. Wilson, E.I.
Design Engineer

Reviewed By:



David A. Poe, P.E., S.E.
Principal

4. Materials Summary

December 26, 2018

Jenn Bradtmueller
 Kiewit Infrastructure Co.
 160 Inverness Drive West, Suite 110
 Englewood, CO 80112

RE: AP-33 4637 Claude Ct. – Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from the property located at 4637 Claude Ct. Denver, CO 80216.

Material Removed	Quantity
Regulated Building Materials	Taken to AP-86; not inventoried (refer to explanation in "RBM Manifest Clarification Letter" dated 12/17/2018)
Clean Demolition Debris	201,600 Lbs
Clean Concrete (Recyclable)	48,600 Lbs

If you have any questions or require further information regarding these quantities, please contact me at 303-238-0207.

Sincerely,
JKS Industries, LLC

Jeffrey Knight
 President

5. RBM Manifest

WASTE BILL OF LADING & CERTIFICATE OF RECYCLING

Universal Waste
 TSCA Waste
 Special Waste

4' Jumbo ___ 4' Box ___ 8' Jumbo ___ 8' Box
 HID Box ___ Battery Box ___ 6.5 Gallon Pail
 14-G PD ___ 30-G PD ___ 55-G PD ___ CY Bx
 95-G PD ___ 55-G SD ___ 85-G SD ___ GL Box

Generator Of Waste:
 Name: Colorado Dept of Trans / Pilot Travel
 Address: 3223 E. 41st Ave
 City, State, Zip: Dover, CO 80216
 Contact: _____
 Phone: _____ Fax: _____
 PO# _____ Job# _____

P/U Fees: \$25 ___ \$30 ___ \$40 ___ \$45 ___ \$55 ___
 \$65 ___ \$75 ___ \$85 ___ \$95 ___ \$105 ___
 \$115 ___ \$125 ___ \$135 ___ \$145 ___ \$155 ___
 Labor Charges: \$ _____
 Off Spec. Charge: \$ _____

Bill To:
 Name: JKS
 Address: _____
 City, State, Zip: _____
 Contact: _____
 Phone: _____ Fax: _____
 PO# _____ Job# _____

BOL#: **26841**

Shipment Date:
7-31-18

Emergency Contact
 (877) 331-2149
 Extension 4

WASTE BROKERAGE FACILITY:
 R8E, LLC
 4810 Newport Street
 Commerce City Colorado 80033-2244
 (p) 303-424-4887 (f) 303-424-9193
 Email: Mike@R8Enviro.com
 www.R8Enviro.com

EPA ID#: COR000231449
 Destination Facility For Universal Waste
 Large Quantity Handler of Universal Waste
 Hazardous Waste Transporter/Transfer Facility
 Used Oil Transporter/Transfer Facility
 US DOT #: 050108 550 051Q **HMP-20746**
 US DOT #1781660 CO **TSCA - EPA Approved PCB Handler**

Container	Count	Type	Waste Common Name	DOT Description	Total Quantity	Unit / Wt. Volume
	1	CF	4' & UNDER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	26	each
			5' & OVER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			UTUBE FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			CIRCULAR FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			COMPACT FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
	1	CF	HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING <u>Neon</u>	Non-DOT Regulated (per 49 CFR 173.164(e))	5	each
			SHIELD/COATED/GROOVED LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			INCANDESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			UV/ARC/IGNITRON LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			BROKEN LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
			CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)	Non-DOT Regulated (per 49 CFR 173.164(e))		
			PCB WASTE RECYCLE/INCINERATION/MICROENCAP	RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171		
			NON-PCB BALLAST RECYCLE/MICROENCAPSULATION	Non-RCRA / Non-DOT Regulated Waste		
			ESCRAP RECYCLING	Non-DOT Regulated		
			MERCURY DEVICE RECYCLING	UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172		
			LEAD ACID BATTERY RECYCLING	UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154		
			ALKALINE BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Special Provision 130		
			NICKEL (Ni-Cad) BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Special Provision 130		
			LITHIUM METAL BATTERY RECYCLING - DOT 173.185(d)	UN3090, Lithium Batteries, 9, PGII, ERG#138		
			LITHIUM Ion BATTERY RECYCLING - DOT 173.185(d)	UN3480, Lithium Batteries, 9, PGII, ERG#138		
			WASTE OIL RECYCLING	Special Waste Liquid		
			WASTE GLYCOL RECYCLING	Special Waste Liquid		
			WASTE AEROSOLS	UN1950, Aerosols, Flammable, 2.1, ERG#126		
			WASTE LATEX PAINT	Special Waste Liquid		
			LOW RADIATION CONTAINING SMOKE DETECTORS	Special Waste Solid, Nuclear Regulatory Law 10 CFR 32.37		
			FIRE EXTINGUISHER(S)	Special Waste Solid		
	5	each	METALS RECYCLING <u>BCRA Empty Drums</u>	Special Waste Solid <u>4 x Poly 1 x Steel</u>	5	each
	1	globe	MISCELLANEOUS RECYCLING	<u>UN1066 Compressed Nitrogen</u>	1	globe
	3	globe	MISCELLANEOUS RECYCLING	<u>Amsul 1102 3-gallon liquid Agent Fire Suppression System</u>	3	globe

Generator Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Unpaid invoices will be assigned to a licensed Collection Agency and subject to Collection Agency Fee's, Attorney's Fee's, Court Costs and Interest.

Signature: [Signature] Title: ENV Coordinator Print Name: Mia Steenkamp Date: 08/02/2018

Transporter 1 Name: RDE, LLC Phone Number: 303-424-4887 Signature: [Signature] Date: 8-1-18

Transporter 2 Name: _____ Phone Number: _____ Signature: _____ Date: _____

Receiving, subject to the classification and regulations in effect on the date of issue of the Bill of Lading, the property described above is in apparent good order. Please retain a copy of this document as the "Certification of Recycling" for the items and quantities listed above.

Signature: [Signature] Date: 8-6-18

6. Weight Tickets

6a. Daily Load Trackers and Associated Truck Tickets

Project #	
30186011	
Truck #	Trailer #
180	38

Iron Woman

Ticket # 257255

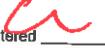
Date 8/27/18

Customer JKS INDUSTRIES

Location & Description	Start Time	Stop Time	Total Hours	Total Loads
Load @ 4637 ELISE CT DENVER	7:45	5:00	9.14	4
Unload @ DADS	8:00			
Material Type DEMO				
Trucking Company IW				

Foreman	JEFF
Customer PO #	
Booking #	86850

Certified Y10

Approved _____
Entered 

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
1 8:00	4:59	1	18 YDS	9:38	9:53
2 10:34	11:00	2	18 YDS	11:33	11:47
3 12:30	1:50	3	18 YDS	2:35	2:53
4 3:35	4:00	4	18 YDS	4:50	5:05
5					
6					
7					
8					
9					
10					

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments LOAD # 3 WAITIN FOR THE TRAIN ON THE JOB
SIDE 12:30 TO 1:40

Pre Trip

Post Trip

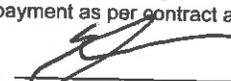
Total Miles

Authorized Signature

By signing this ticket, signee assumes all responsibility for any damage that may occur from ground sinking or settling and will not hold Iron Woman liable in such instances. Furthermore signee authorizes payment as per contract agreement.

Antonio Morales
Driver

Employee ID #


Customer Signature

Iron Woman

5680 Emerson St.
Denver, CO 80216

303-399-5534 Office 303-289-8700 Fax

White / IW Copy

Yellow / Driver / OO Copy

Pink / Project Mgr-Field Copy

ACT# 306-14925

Iron Woman

Ticket # **260596**

Date **8/27/18**

Project # 30186011	
Truck # 156	Trailer # 1032

Customer **JKS Industries**

Foreman **Jell 720 402 4410**

Customer PO # **C70 Certified Y(N)**

Booking # **86851**

Location & Description	Start Time	Stop Time	Total Hours	Total Loads
Load @ 463/Chade CT Unload @ 80216	7:15	6:00 6:00 <i>SPMA</i>	13:75 13 <i>9.25</i>	4
Material Type DEMO	Trucking Company IW			

Approved _____
Entered *[Signature]*

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
745	0730	18-312 AP33	1840	1020	1020
1100	1130	18-312 AP33	1840	1150	1205
110	215	18312 AP33	1840	244	305
340	215	18312 AP34	1840	450	505
5					
6					
7					
8					
9					
10					

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments	Pre Trip 70-715
	Post Trip 545-600
	Total Miles 545-600

Authorized Signature

By signing this ticket, signee assumes all responsibility for any damage that may occur from ground sinking or settling and will not hold Iron Woman liable in such instances. Furthermore signee authorizes payment as per contract agreement.

Driver Neil Employee ID # 1594 Customer Signature [Signature]

Iron Woman
5680 Emerson St.
Denver, CO 80216
303-399-5534 Office 303-289-8700 Fax

Project #	
30156011	
Truck #	Trailer #
166	1094

Iron Woman

Ticket # 258193

Date 8/27/18

Customer JKS Industries

Location & Description	Start Time	Stop Time	Total Hours	Total Loads
Load @ 4637 Claude Ct				
Unload @ DADS	8:00	13:45	5.75	2
Material Type Demo		12:45		
Trucking Company IW				

Foreman	
Customer PO #	
Booking #	

Certified Y/N Y N

Approved _____
Entered _____

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
1 8:08	9:43	155		10:13	10:27
2 11:23	11:50	159		12:24	12:39
3					
4					
5					
6					
7					
8					
9					
10					

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments	Pre Trip 7:45-8:00
	Post Trip 15:45-16:00
	Total Miles

Authorized Signature
By signing this ticket, signee assumes all responsibility for any damage that may occur from ground sinking or settling and will not hold Iron Woman liable in such instances. Furthermore signee authorizes payment as per contract agreement.

JAMES WOODS 1522
Driver Employee ID # Customer Signature

Iron Woman
5680 Emerson St.
Denver, CO 80216
303-399-5534 Office 303-289-8700 Fax

Iron Woman

Ticket # 259036

Date 8/27/18

Project #	
30186011	
Truck #	Trailer #
168	1096

Customer JKS

Foreman Jeff 720-402-4410

Customer PO #

Booking # 86853

Certified Y N

Location & Description	Start Time	Stop Time	Total Hours	Total Loads
Load @ 4637 Clade Ct				
Unload @ Dad's 3500000	8:15	2:30	6.5	2
Material Type Demo	Trucking Company ILW			

Approved 

Entered

Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
1	8:15	18-312 AP-33	18 Yrs	1101	1115
2	1208	157765	18 Yrs	201	206
3					
4					
5					
6					
7					
8					
9					
10					

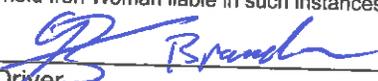
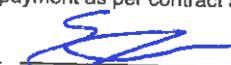
Site In	Site Out	Ticket #	Weight	Unload In	Unload Out
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Comments JKS need us to take concrete to Allied Recycled Aggregates at 7901 US-85 Commerce City CO 80022.

Pre Trip	700 715
Post Trip	
Total Miles	

Authorized Signature

By signing this ticket, signee assumes all responsibility for any damage that may occur from ground sinking or settling and will not hold Iron Woman liable in such instances. Furthermore signee authorizes payment as per contract agreement.

Driver  Employee ID # 8007 Customer Signature 

Iron Woman
 5680 Emerson St.
 Denver, CO 80216
 303-399-5534 Office 303-289-8700 Fax

6b. Recycling Weight Tickets

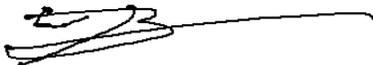
Weighmaster: JOYCE #2690

Allied Recycled Aggregates
P.O. Box 566
Commerce City, CO 80037-0566
303 289-3366 or 800-336-6865
www.alliedrecycle.com

Customer: 7038.000 JKS INDUSTRIES LLC
Job: 30186011
Job Address: PILOT STATION-3455 E 46TH AVE
Truck: IW168*
Sale Type: A
PO: 30186011
Material: 2 - CONCRETE HANDLING
Tax Code: 15
Trucker: IRON WOMAN

Special Instructions: S/D
Extra Information:

Total tons to job this date: 1.00



Signature: _____

I certify that this load contains NO Hazardous materials, including but not limited to, ASBESTOS.

Ticket: 1577765

Date: 8/27/2018
Time: 13:38

TONS Pounds

Net: 1.00 LOAD

Page: 0 Section:
Page Code:

Date: 8/27/2018
Ticket: 1577765

6c. Waste Weight Tickets



2480873

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3200875

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	08/27/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					

	Time	Scale	Operator	Inbound	Gross	2 lb*
In	08/27/2018 07:10:34	MANUAL WT	aramirez		Tare	1 lb*
Out	08/27/2018 07:10:34		aramirez		Net	1 lb
			* Manual Weight		Tons	

Comments 5

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100	198.00	Yards				

Total Fees
Total Ticket



Date: 8/27/18

Ticket#: AP 33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: Antonio Morales

10 am

T# 156

Date: 8-27-18

Ticket#: 18-312 A-P 33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: ~~scribble~~ Nest de West
IW 156

T 168

Date: 8-27-18

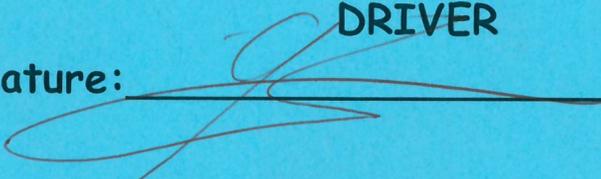
Ticket#: 18-312 AP-33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature:  DRIVER

T# 166

Date: 8-27-18

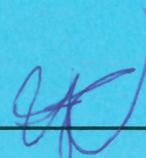
Ticket#: 18-312 AP 33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature:  DRIVER

DW VTT180

Date: 8/27/18

Ticket#: AP 33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Antonio Morales

1150

T# 156

Date: 8-27-18

Ticket#: 18-312 AP33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Neil de Wet

Date: 8-27-18

Ticket#: 18-312

ACCT#:306-14925

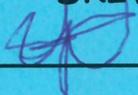
JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: 

AW V I I C V

Date: 8/27/18

Ticket#: AP 33

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: Antonio Morgies

156

161

Date: 8/27/18

Ticket#: AP 33

ACCT#:306-14925

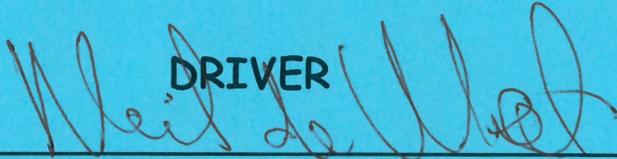
JKS INDUSTRIES
CENTRAL 70 PROJECT

11 x 18 = 198

CDY 18 YDS ✓

25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

Signature: 
DRIVER

7. Dump Diversion Summary

JKS Industries
AP-33 4637 Claude Ct.

Descriptions		Dump Diversion / Recycle %								
Phase	Activity	Unit of Measure	# of Yards per Container	# of Containers	Total Number of Yards	Pounds Per Yard **	Total Lbs	Recycled Yes/No	Pounds of Recycle or Dump Diversion	% of Recycle or Dump Diversion
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
Demolition	Demolition Construction Debris	Cubic Yard	18	9	162.00	1,400.00	226,800			
Demolition	Concrete Debris	Cubic Yard	12	1	12.00	4,050.00	48,600	x	48,600	17.65%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	x	-	0.00%
Demolition	Steel	Lbs	12	-	-	1,000.00	-	x	-	0.00%
Demolition	Copper	Lbs					-	x	-	0.00%
				10	174.00		275,400		48,600	17.65%

STUDY NOTES

- 1 The source material used for the Volume to Weight conversions came from Waste Management web site.
- 2 Conversions ratio's have been modified based on estimated compaction.

8. Daily Logs

